

By Express Mail # EV072606877US · March 15, 2002

- A1
3. A method according to claim 1, wherein use of a target for the transmission parameter exceeding the limit value is prevented at the controller.

4. A method according to claim 1, wherein the limit value equals with the target for the transmission parameter in use at the moment of detecting the predefined condition.

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6. A method according to claim 1, wherein the predefined condition comprises a temporary power limitation situation at the first station.

7. A method according to claim 1, wherein the predefined condition comprises an overload situation at the first station.

8. A method according to claim 1, wherein the predefined condition comprises a failure in the communication system.

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9. A method according to claim 1, wherein the monitoring of the occurrence of the predefined condition is based on determination of the interference power of the radio connection.

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10. A method according to claim 1, wherein the target for the transmission parameter comprises connection quality target.

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11. A method according to claim 1, wherein the target for the transmission parameter comprises signalling energy/noise target.

12. A method according to claim 1, wherein the target for the transmission parameter comprises a target transmission power level of the transmission from the second station.

13. A method according to claim 1, wherein the step of preventing the target for the transmission parameter to exceed the limit value comprises ignoring power control commands at the first station until the predefined condition is over.

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cont

14. A method according to claim 1, wherein the step of preventing of the target for the transmission parameter to exceed the predefined value comprises preventing a generation of new power control commands at the controller until the predefined condition is over.

15. A method according to claim 1, wherein the controller controls the transmission powers between the first station and the second station by means of outer loop power control.

16. A method in accordance with claim 1, further comprising steps of:
receiving the target for the transmission parameter from the controller at the first station;
creating a further target for the transmission parameter at the first station for use in the transmission power adjustment, wherein the further target corresponds the target received from

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the controller until the predefined condition is detected whereafter the further target is prevented to exceed the limit value for the target and the target received from the controller is ignored.

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Claim 17
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17. A method in accordance with claim 1, further comprising steps of:

detecting a difference between the value of the target for the transmission parameter provided by the controller and the value of the target for the transmission parameter used for power control by the first station after the predefined condition is over; and
reducing the difference between the said two target values.

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20. A method according to claim 17, wherein the difference between the said two target values is reduced gradually.

23. A method according to claim 20, wherein the gradual reducing of the difference comprises requesting a decrease of the transmission power by an amount that is greater than the amount of decrease requested in a normal mode of operation until the difference between the target values used by the first station and provided by the controller is below a predefined level.

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Claim 24
24. A method according to claim 1, wherein the transmission power control is based on use of relative power control requests.

25. A method according to claim 1, wherein the communication system comprises a further station similar to the first station and the controller controls the transmission power of the

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second station by providing both the first and the further station with targets for the transmission parameter.

26. A method according to claim 1, wherein connections between the first station and other stations are adjusted in a priority order.

27. A method according to claim 1, wherein the controller comprises a radio network controller of a cellular communication system, the first station comprises a base station of the cellular communication system and the second station comprises a mobile station, and wherein the transmission power to be adjusted comprises transmission power from at least one mobile station towards at least one base station.

32. A communication system according to claim 28, wherein the controller comprises a radio network controller of a cellular communication system, the first station comprises a base station of the cellular communication system and the second station comprises a mobile station, and wherein the transmission power to be adjusted comprises transmission power from at least one mobile station towards at least one base station.